

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L22	18	"123".dss. and (o2 or oxygen) near (chamber or cylinder) near (value or concentration)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/04/15 10:55
L23	0	"123".dss. and (o2 or oxygen) near (chamber or cylinder) near (value or concentration) near (nox or "nitrogen oxide")	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/04/15 11:15
L24	3	"123".dss. and (o2 or oxygen) near (value or concentration) near (nox or "nitrogen oxide" or emission)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/04/15 11:17
L25	27	"123".dss. and (o2 or oxygen) near (nox or "nitrogen oxide" or emission)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/04/15 11:25
L26	130	"123".dss. and (egr or "exhaust gas") near (oxygen or o2) with (feedback or control)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/04/15 11:32
L27	0	"123".dss. and (egr or "exhaust gas") near (oxygen or o2) with (feedback or control) near (nox or "nitrogen oxide")	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/04/15 11:37
L28	2	"123".dss. and (egr or "exhaust gas") near (oxygen or o2) with (feedback or control) with (nox or "nitrogen oxide")	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/04/15 11:37
L29	36	"123".dss. and (egr or "exhaust gas") near (oxygen or o2) with (nox or "nitrogen oxide")	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/04/15 11:41
L30	726	oxygen with sensor with "combustion chamber"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/04/15 15:06
L32	74	123/704.ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/04/15 15:41
L33	86	gaertner-u.in.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/04/15 17:24
L34	7	((UWE) near2 (GAERTNER)).INV.	US-PGPUB; USPAT	OR	ON	2009/04/15 17:32
S1	0	("FR2830276a").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2009/03/24 13:19
S2	0	("FR2830276").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2009/03/24 13:19
S3	1	("6826471").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2009/03/24 15:25

S4	1	("6004524").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2009/03/24 15:31
S5	1	("6029451").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2009/03/24 15:33
S6	2	("2002112469").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/03/24 15:39
S7	1	("20040050362").PN.	US-PGPUB; USPAT	OR	OFF	2009/03/24 16:16
S8	5	"2830276"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/03/24 16:18
S9	1	("0288056").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/03/24 16:20
S10	2	("19754354").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/03/24 16:21
S11	0	("10552166").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/03/24 16:27
S13	344183	gas with temperature	US-PGPUB; USPAT	OR	ON	2009/03/24 16:51
S14	303782	combustion	US-PGPUB; USPAT	OR	ON	2009/03/24 16:51
S15	1045129	nitrogen oxide	US-PGPUB; USPAT	OR	ON	2009/03/24 16:52
S16	11	nitrogen adj oxide	US-PGPUB; USPAT	OR	ON	2009/03/24 16:52
S17	28015	nitrogen adj oxide	US-PGPUB; USPAT	OR	ON	2009/03/24 16:53
S18	615	gradient	US-PGPUB; USPAT	OR	ON	2009/03/24 16:53
S19	91028	S13 and S14	US-PGPUB; USPAT	OR	ON	2009/03/24 16:53
S20	12638	S19 and S17	US-PGPUB; USPAT	OR	ON	2009/03/24 16:54
S21	0	S20 and S18	US-PGPUB; USPAT	OR	ON	2009/03/24 16:54
S22	4814752	maximum or max or hig\$5	US-PGPUB; USPAT	OR	ON	2009/03/24 16:55
S23	12422	S22 and S20	US-PGPUB; USPAT	OR	ON	2009/03/24 16:55

S24	4020867	grad\$5 or gradient or change or slope or derivative	US-PGPUB; USPAT	OR	ON	2009/03/24 16:56
S25	9257	S24 and S23	US-PGPUB; USPAT	OR	ON	2009/03/24 16:56
S26	1973841	"123"/	US-PGPUB; USPAT	OR	ON	2009/03/24 16:56
S27	2101	S25 and S26	US-PGPUB; USPAT	OR	ON	2009/03/24 16:57
S28	19	US-2830276-\$.DID. OR DE-10148663-\$.DID. OR US-2381872-\$.DID. OR EP-0288056-\$.DID. OR JP-2025474-\$.DID. OR JP-7059934-\$.DID. OR JP-63263268-\$.DID. OR JP-2085794-\$.DID. OR JP-7094808-\$.DID. OR JP-63302163-\$.DID. OR DE-3851231-\$.DID. OR DE-3851231D1-\$.DID. OR DE-3855849-\$.DID. OR DE-3855849D-\$.DID. OR DE-3862339-\$.DID. OR DE-3862339D-\$.DID. OR EP-0412578-\$.DID. OR EP-0579271-\$.DID. OR KR-9300346-\$.DID. OR US-4887574-\$.DID. OR DE-19754354-\$.DID. OR JP-2002195071-\$.DID. OR DE-10142198-\$.DID. OR DE-4406743-\$.DID. OR DE-59501618-\$.DID. OR DE-59501618D1-\$.DID. OR EP-0670422-\$.DID.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/03/25 11:29
S32	9	US-2830276-\$.DID. OR EP-0288056-\$.DID. OR DE-19754354-\$.DID. OR DE-4406743-\$.DID. OR DE-19734494-\$.DID. OR EP-0554766-\$.DID. OR DE-10043383-\$.DID.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/03/25 12:48
S33	3	"2002112469"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/03/25 13:16
S34	0	("2002112469").PN.	US-PGPUB; USPAT	OR	OFF	2009/03/25 13:16
S35	1	("2002112469").PN.	US-PGPUB; USPAT	OR	OFF	2009/03/25 13:17
S36	1544679	mean or average	US-PGPUB; USPAT	OR	ON	2009/03/25 16:51
S37	44	gas with temerature	US-PGPUB; USPAT	OR	ON	2009/03/25 16:51
S38	0	S28 and S32 and S36 and S37	US-PGPUB; USPAT	OR	ON	2009/03/25 16:51
S39	19	S36 and S37	US-PGPUB; USPAT	OR	ON	2009/03/25 16:52
S45	0	ep0288056	US-PGPUB; USPAT	OR	ON	2009/03/27 08:40
S46	0	("ep288056").PN.	US-PGPUB; USPAT	OR	OFF	2009/03/27 08:40
S47	33	hitachi.in.	US-PGPUB; USPAT	OR	ON	2009/03/27 08:41
S48	22	("3441381" "3938959" "3972687" "4793136" "4853360" "4857413" "4857500" "4948774" "4988483").PN. OR ("5380501").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/27 08:41
S49	212	hitachi.in.	EPO	OR	ON	2009/03/27 08:46
S54	1	"6826471".pn.	US-PGPUB; USPAT; EPO	OR	ON	2009/03/27 08:50
S55	9	("4439137" "4556030" "5219227" "5698776" "5854990" "5956948" "6467256" "6484493").PN. OR ("6826471").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/27 08:50

S56	0	("10552166").PN.	US-PGPUB; USPAT	OR	OFF	2009/03/27 11:24
S57	1	("0288056").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/03/30 12:46
S58	2	("19754354").PN.	EPO; JPO; DERWENT	OR	OFF	2009/03/30 12:56
S59	1	("19754354").PN.	DERWENT	OR	OFF	2009/03/30 12:57
S60	755088	emission or NOx or Nox or "nitrogen oxide" or "air pollution" or smog or "acid rain"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2009/03/31 09:39
S62	201	(123/434).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/03/31 09:48
S63	304	(123/698).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/03/31 09:48
S64	685	(123/435).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/03/31 09:48
S65	210	(123/672).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/03/31 09:49
S66	188	(123/673).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/03/31 09:49
S67	294	(123/676).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/03/31 09:49
S68	108	(123/684).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/03/31 09:50
S69	80	(123/700).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/03/31 09:52
S70	144	(123/703).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/03/31 09:52
S71	425	(123/568.11).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/03/31 09:57
S72	702	(123/568.14,568.15,568.2,568.31).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/03/31 09:59
S73	833	(123/585).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/03/31 10:00
S74	177	(123/588).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/03/31 10:00
S80	57	S62 and S60	US-PGPUB; USPAT	OR	ON	2009/03/31 11:32
S81	4094	(123/698,435,672,673,676,684,700,703,568.11,568.14,568.15,568.2,568.31,585,588,434).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/03/31 12:12
S82	2206	S81 and S60	US-PGPUB; USPAT	OR	ON	2009/03/31 12:12
S83	3266568	pressure or temerature or temp	US-PGPUB; USPAT	OR	ON	2009/03/31 12:17

S84	2131	S83 and S82	US-PGPUB; USPAT	OR	ON	2009/03/31 12:17
S85	2080	exhaust and S84	US-PGPUB; USPAT	OR	ON	2009/03/31 12:18
S86	1153	oxygen and S85	US-PGPUB; USPAT	OR	ON	2009/03/31 12:18
S87	1547697	mean or average	US-PGPUB; USPAT	OR	ON	2009/03/31 12:18
S88	554	S87 and S86	US-PGPUB; USPAT	OR	ON	2009/03/31 12:18
S89	0	S88 and "center of gravity"	US-PGPUB; USPAT	OR	ON	2009/03/31 14:08
S90	535	S88 and (spent or used or consum\$5) and (fuel or gas or gasoline or diesel)	US-PGPUB; USPAT	OR	ON	2009/03/31 14:09
S91	67	S90 and (gradient or slope)	US-PGPUB; USPAT	OR	ON	2009/03/31 14:10
S92	48	S91 and (mean or average) with (gas or gasoline or diesel or fuel)	US-PGPUB; USPAT	OR	ON	2009/03/31 14:17
S93	64	(US-20020112469-\$ or US-20040050362-\$ or US-20080208435-\$ or US-20080208434-\$ or US-20080201059-\$ or US-20080201058-\$ or US-20080035122-\$ or US-20060107936-\$ or US-20060011180-\$ or US-20050133013-\$ or US-20030221681-\$ or US-20030200955-\$ or US-20020195086-\$ or US-20020185109-\$ or US-20020026926-\$ or US-20010017127-\$).did. or (US-6826471-\$ or US-6004524-\$ or US-6029451-\$ or US-4436286-\$ or US-5380501-\$ or US-6467256-\$ or US-7458361-\$ or US-7441544-\$ or US-7401605-\$ or US-7367316-\$ or US-7281518-\$ or US-7270118-\$ or US-7258106-\$ or US-7155334-\$ or US-7113861-\$ or US-7073465-\$ or US-6990957-\$ or US-6935313-\$ or US-6915776-\$ or US-5158058-\$ or US-3828552-\$ or US-3640255-\$ or US-7475673-\$ or US-7231906-\$ or US-7163007-\$ or US-7059313-\$).did. or (US-6985809-\$ or US-6560526-\$ or US-6481427-\$ or US-6354268-\$ or US-6325056-\$ or US-6286482-\$ or US-6276334-\$ or US-6230683-\$ or US-6125801-\$ or US-6029627-\$ or US-5551411-\$ or US-5497757-\$ or US-5400592-\$ or US-5050556-\$ or US-5048495-\$ or US-4621603-\$ or US-4401081-\$ or US-4380986-\$).did. or (DE-19754354-\$).did. or (DE-10148663-\$ or DE-19754354-\$ or WO-0218762-\$).did.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/03/31 15:13
S95	29	S93 and (gas or fuel cylinder) with (temperature or temp) with pressure	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/03/31 15:14
S96	20	S93 and (gas or fuel cylinder) with (temperature or temp or pressure) with ("crank angle" or CA or KA or crank)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/03/31 15:16
S97	11	"5106203"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/03/31 15:22
S98	2	"20070157599"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/03/31 15:34
S99	1	"20070157599"	US-PGPUB; USPAT	OR	ON	2009/03/31 16:24
S100	1	S99 and "mean gas temperature"	US-PGPUB; USPAT	OR	ON	2009/03/31 16:25
S101	3049822	mean or average or "add up" or mode or statistic\$5 or middle or mode or median	US-PGPUB; USPAT	OR	ON	2009/04/01 11:02
S102	3038577	gas\$7 fluid\$3 gasolene gasoline petrol air exhau\$7 fume\$3 petr\$7	US-PGPUB; USPAT	OR	ON	2009/04/01 11:05

S103	3346186	temp\$10 hot heat warm	US-PGPUB; USPAT	OR	ON	2009/04/01 11:07
S104	140642	S101 same S102 same S103	US-PGPUB; USPAT	OR	ON	2009/04/01 11:08
S105	40746	S101 with S102 with S103	US-PGPUB; USPAT	OR	ON	2009/04/01 11:09
S106	9284	S101 near3 S102 near3 S103	US-PGPUB; USPAT	OR	ON	2009/04/01 11:09
S107	123	S106 and "123".class.	US-PGPUB; USPAT	OR	ON	2009/04/01 11:11
S108	137	S106 and ("123".class. or "126".class.)	US-PGPUB; USPAT	OR	ON	2009/04/01 11:33
S109	304171	combustion	US-PGPUB; USPAT	OR	ON	2009/04/01 12:02
S110	2628481	state	US-PGPUB; USPAT	OR	ON	2009/04/01 12:03
S112	3480	S109 near S110	US-PGPUB; USPAT	OR	ON	2009/04/01 12:03
S114	142	S112 and ("first law" or thermo or thermodynamics)	US-PGPUB; USPAT	OR	ON	2009/04/01 12:04
S115	19	S114 and gravity	US-PGPUB; USPAT	OR	ON	2009/04/01 12:04
S116	3255481	state or phase	US-PGPUB; USPAT	OR	ON	2009/04/01 12:05
S117	5048	S116 near S109	US-PGPUB; USPAT	OR	ON	2009/04/01 12:06
S118	2767	("first law" or law or rule) same (thermo or thermodynamic)	US-PGPUB; USPAT	OR	ON	2009/04/01 12:07
S119	19	S117 and S118	US-PGPUB; USPAT	OR	ON	2009/04/01 12:07
S120	1	S119 and S108	US-PGPUB; USPAT	OR	ON	2009/04/01 12:08
S121	10	S117 and S108	US-PGPUB; USPAT	OR	ON	2009/04/01 12:10
S122	1	"10552140"	US-PGPUB; USPAT	OR	ON	2009/04/01 13:42
S123	17219	crank near4 angle	US-PGPUB; USPAT	OR	ON	2009/04/01 13:51
S124	1345	S123 and S117	US-PGPUB; USPAT	OR	ON	2009/04/01 13:52
S125	8	S124 and S108	US-PGPUB; USPAT	OR	ON	2009/04/01 13:54

S126	123	(US-20020112469-\$ or US-20040050362-\$ or US-20080208435-\$ or US-20080201059-\$ or US-20080201058-\$ or US-20080035122-\$ or US-20060107936-\$ or US-20060011180-\$ or US-20050133013-\$ or US-20030221681-\$ or US-20030200955-\$ or US-20020195086-\$ or US-20020185109-\$ or US-20020026926-\$ or US-20010017127-\$ or US-20080110422-\$ or US-20070289572-\$ or US-20070289571-\$ or US-20070215095-\$ or US-20070137612-\$ or US-20050229903-\$ or US-20050022514-\$ or US-20040211372-\$ or US-20030084858-\$ or US-20050051147-\$ or US-20080245359-\$).did. or (US-20080210197-\$ or US-20080072579-\$ or US-20080066713-\$ or US-20070289584-\$ or US-20070245818-\$ or US-20070208471-\$ or US-20070169748-\$ or US-20060278185-\$ or US-20060213490-\$ or US-20060075996-\$ or US-20050193997-\$ or US-20050193988-\$ or US-20050065707-\$ or US-20050056244-\$ or US-20040244473-\$ or US-20040237514-\$ or US-20040220720-\$ or US-20040107927-\$ or US-20040050038-\$ or US-20030217733-\$ or US-20030114978-\$ or US-20030101974-\$ or US-20030093994-\$ or US-20030029427-\$ or US-20030015168-\$ or US-20020179042-\$ or US-20020108603-\$).did. or (US-20020100442-\$ or US-20020099482-\$ or US-20020059915-\$ or US-20020038654-\$ or US-20020038541-\$ or US-20020007805-\$ or US-20020000209-\$ or US-20010054416-\$ or US-20010052341-\$ or US-20010052339-\$ or US-20010013335-\$ or US-20080092860-\$ or US-20070209609-\$ or US-20070186910-\$ or US-20070156322-\$ or US-20070113542-\$ or US-20060144047-\$ or US-20060118087-\$ or US-20060030998-\$ or US-20060016425-\$ or US-20050000473-\$ or US-20040128981-\$).did. or (US-6826471-\$ or US-6004524-\$ or US-6029451-\$ or US-4436286-\$ or US-5380501-\$ or US-6467256-\$ or US-7458361-\$ or US-7441544-\$ or US-7401605-\$ or US-7367316-\$ or US-7281518-\$ or US-7270118-\$ or US-7258106-\$ or US-7155334-\$ or US-7113861-\$ or US-7073465-\$ or US-6990957-\$ or US-6935313-\$ or US-6915776-\$ or US-5158058-\$ or US-3828552-\$ or US-3640255-\$ or US-7475673-\$ or US-7231906-\$ or US-7163007-\$ or US-7059313-\$).did. or (US-6985809-\$ or US-6560526-\$ or US-6481427-\$ or US-6354268-\$ or US-6325056-\$ or US-6286482-\$ or US-6276334-\$ or US-6230683-\$ or US-6125801-\$ or US-6029627-\$ or US-5551411-\$ or US-5497757-\$ or US-5400592-\$ or US-5050556-\$ or US-5048495-\$ or US-4621603-\$ or US-4401081-\$ or US-4380986-\$).did. or (DE-19754354-\$).did. or (DE-10148663-\$ or DE-19754354-\$ or WO-0218762-\$).did.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/04/01 18:01
S128	14444	(in or within or inside) near3 (chamber or combustion or housing) near temperature	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/04/01 18:03
S129	2	engine and diesel and control and method	US-PGPUB; USPAT	OR	ON	2009/04/01 18:06
S130	30242	engine and diesel and control and method	US-PGPUB; USPAT	OR	ON	2009/04/01 18:07
S131	14444	(in or within or inside) near3 (chamber or combustion or housing) near temperature	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/04/01 18:07
S132	953	S130 and S131	US-PGPUB; USPAT	OR	ON	2009/04/01 18:07
S133	252	S132 and feedback	US-PGPUB; USPAT	OR	ON	2009/04/01 18:08
S134	250	S133 and exhaust	US-PGPUB; USPAT	OR	ON	2009/04/01 18:08
S135	209	S134 and (oxygen or ox or o2)	US-PGPUB; USPAT	OR	ON	2009/04/01 18:09
S136	37	S135 and crank	US-PGPUB; USPAT	OR	ON	2009/04/01 18:09
S138	833	(123/672,673,676,679).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/04/06 10:30
S140	3574	(cylinder or chamber or combustion) with (temperature or pressure) with crank with angle	US-PGPUB; USPAT	OR	ON	2009/04/06 10:32
S141	75	S138 and S140	US-PGPUB; USPAT	OR	ON	2009/04/06 10:32
S142	1299	(cylinder or chamber or combustion) with temperature with crank with angle	US-PGPUB; USPAT	OR	ON	2009/04/06 10:33

S144	37	S138 and S142	US-PGPUB; USPAT	OR	ON	2009/04/06 10:33
S145	7	("5682317" "5956948" "6236908" "6425372").PN. OR ("6925373").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/06 11:06
S146	10	S144 and (derivative or slope or gradient or "dQ" or "dT")	US-PGPUB; USPAT	OR	ON	2009/04/06 11:55
S147	1841	(cylinder or chamber or combustion) with temperature with crank	US-PGPUB; USPAT	OR	ON	2009/04/06 16:55
S148	861	(123/672,673,676,678,679).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/04/06 16:55
S149	44	S147 and S148	US-PGPUB; USPAT	OR	ON	2009/04/06 16:56
S150	15	S149 and (derivative or slope or gradient or "dQ" or "dT")	US-PGPUB; USPAT	OR	ON	2009/04/06 16:57
S151	15	S149 and (derivative or slope or gradient or "dQ" or "dT" or poly or polynomial)	US-PGPUB; USPAT	OR	ON	2009/04/06 17:04
S152	3	(cylinder or chamber or combustion) with temperature with crank with (slope or gradient or derivative or integration)	US-PGPUB; USPAT	OR	ON	2009/04/06 17:19
S153	11	(cylinder or chamber or combustion) with temperature with crank same(slope or gradient or derivative or integration)	US-PGPUB; USPAT	OR	ON	2009/04/06 17:20
S154	1	("6425372").PN.	US-PGPUB; USPAT	OR	OFF	2009/04/06 17:22
S155	3	("6425372").URPN.	USPAT	OR	ON	2009/04/06 17:22
S156	9	"5219227"	USPAT	OR	ON	2009/04/06 17:48
S157	1	("5219227").PN.	US-PGPUB; USPAT	OR	OFF	2009/04/06 17:48
S158	1218	(cylind\$5 or chambe\$5 or combust\$5) with (press\$5 or profile) with crank with (slope or grad\$7 or deriva\$7 or integration or chang\$7)	US-PGPUB; USPAT	OR	ON	2009/04/06 17:59
S159	861	(123/672,673,676,678,679).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/04/06 17:59
S160	12	S158 and S159	US-PGPUB; USPAT	OR	ON	2009/04/06 17:59
S167	274998	(cylind\$5 or chambe\$5 or combust\$5) with (press\$5 or profile or temp\$13) with (slope or grad\$7 or deriva\$7 or integration or chang\$7 or "rate of change" or line\$5 or polyn\$10 or max or maximum or high\$7)	US-PGPUB; USPAT	OR	ON	2009/04/06 18:36
S168	3365	S167 and ("123".class. or "126".class.)	US-PGPUB; USPAT	OR	ON	2009/04/06 18:39
S169	1016	S168 and (emmis%7 or nox or nitrogen or "nitrogen oxide" or soot or smog or "acid rain")	US-PGPUB; USPAT	OR	ON	2009/04/06 18:39
S170	0	("123".class. and "126".class.) and temperature near gradient	US-PGPUB; USPAT	OR	ON	2009/04/06 19:37
S171	0	("123".class. and "126".class.) and temperature near slope	US-PGPUB; USPAT	OR	ON	2009/04/06 19:38
S172	0	("123".class. and "126".class.) and temperature near ("dq" or "dT")	US-PGPUB; USPAT	OR	ON	2009/04/06 19:38
S173	0	("123".class. and "126".class.) and temperature with ("dq" or "dT")	US-PGPUB; USPAT	OR	ON	2009/04/06 19:39

S174	17500	temperature with (gradient or slope or "rate of change" or dq or dt)	US-PGPUB; USPAT	OR	ON	2009/04/06 19:40
S175	10	temperature with (gradient or slope or "rate of change" or dq or dt) with crank	US-PGPUB; USPAT	OR	ON	2009/04/06 19:40
S176	996574	("change in" or chang\$7 or differ\$10) with (tempe\$10 or press\$10)	US-PGPUB; USPAT	OR	ON	2009/04/07 11:33
S177	8457	("123".class. or "126".class.)	US-PGPUB; USPAT	OR	ON	2009/04/07 11:37
S179	3403	S176 and S177	US-PGPUB; USPAT	OR	ON	2009/04/07 11:38
S180	1061	S179 and @ad<"20030409"	US-PGPUB; USPAT	OR	ON	2009/04/07 11:38
S181	218	(oxyg\$5 or o2) with (nox or (nitrogen adj oxide)) and "123".class.	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/09 11:48
S182	3542140	calcula%5 or ciph%5 or compute or figure or estimat\$5 or evaluat%5 or gauge or judge or evalua%5	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/09 11:50
S183	153	S181 and S182	US-PGPUB; USPAT; USOCR	OR	ON	2009/04/09 11:51
S184	431	(123/674).CCLS.	US-PGPUB; USPAT	OR	OFF	2009/04/09 12:12
S187	6	S183 and S184	US-PGPUB; USPAT	OR	ON	2009/04/09 12:13
S188	5	"123".class. and "calculate oxygen"	US-PGPUB; USPAT	OR	ON	2009/04/09 13:53
S192	13	"123".class. and (calcula\$5 or deriv%5) near (oxygen or o2)	US-PGPUB; USPAT	OR	ON	2009/04/09 13:57
S193	17174	"123".class. (oxygen or o2) with (nox or (nitrogen adj oxide) or emissi%5)	US-PGPUB; USPAT	OR	ON	2009/04/09 14:04
S195	8809	"123".class. (oxygen or o2) with (nox or (nitrogen adj oxide) or emissi%5) and (egr or (exhaust adj gas adj recirculation))	US-PGPUB; USPAT	OR	ON	2009/04/09 14:05
S196	8577	"123".class. (oxygen or o2) with (nox or (nitrogen adj oxide) or emissi%5) and (egr or (exhaust adj gas adj recirculation)) and (compression or diesel) and engine	US-PGPUB; USPAT	OR	ON	2009/04/09 14:06
S197	8543	"123".class. (oxygen or o2) with (nox or (nitrogen adj oxide) or emissi%5) and (egr or (exhaust adj gas adj recirculation)) and (compression or diesel) and engine and (control or feedback)	US-PGPUB; USPAT	OR	ON	2009/04/09 14:08
S198	8417	"123".class. (oxygen or o2) with (nox or (nitrogen adj oxide) or emissi%5) and (egr or (exhaust adj gas adj recirculation)) and (compression or diesel) and engine and (control or feedback) and method	US-PGPUB; USPAT	OR	ON	2009/04/09 14:08
S199	8398	"123".class. (oxygen or o2) with (nox or (nitrogen adj oxide) or emissi%5) and (egr or (exhaust adj gas adj recirculation)) and (compression or diesel) and engine and (control or feedback) and method and (fuel or (fuel adj air))	US-PGPUB; USPAT	OR	ON	2009/04/09 14:09
S200	7283	"123".class. (oxygen or o2) with (nox or (nitrogen adj oxide) or emissi%5) and (egr or (exhaust adj gas adj recirculation)) and (compression or diesel) and engine and (control or feedback) and method and (fuel or (fuel adj air)) and ("control adj engine" or "engine adj control")	US-PGPUB; USPAT	OR	ON	2009/04/09 14:12
S201	7283	"123".class. (oxygen or o2) with (nox or (nitrogen adj oxide) or emissi%5) with (egr or (exhaust adj gas adj recirculation)) and (compression or diesel) and engine and (control or feedback) and method and (fuel or (fuel adj air)) and ("control adj engine" or "engine adj control")	US-PGPUB; USPAT	OR	ON	2009/04/09 14:12
S202	7283	"123".class. (oxygen or o2) with (nox or (nitrogen adj oxide) or emissi%5) with (egr or (exhaust adj gas adj recirculation)) and (compression or diesel) and engine and (control or feedback) and method and (fuel or (fuel adj air)) and ("control adj engine" or "engine adj control") and (oxygen near (level or concentration))	US-PGPUB; USPAT	OR	ON	2009/04/09 14:14

S203	7283	"123".cls. (oxygen or o2) with (nox or (nitrogen adj oxide) or emissi%5) with (egr or (exhaust adj gas adj recirculation)) and (compression or diesel) and engine and (control or feedback) and method and (fuel or (fuel adj air)) and ("control adj engine" or "engine adj control") and ((in or inside) adj (cylinder or chamber))	US-PGPUB; USPAT	OR	ON	2009/04/09 14:15
S204	0	"A method of measuring an oxygen concentration and a nitrogen oxide concentration"	US-PGPUB; USPAT	OR	ON	2009/04/09 14:29
S205	0	calculat\$5 near "oxygen" with (nox or "nitrogen oxide")	US-PGPUB; USPAT	OR	ON	2009/04/09 14:32
S206	15	calculat\$5 near "oxygen" with (nox or "nitrogen oxide")	US-PGPUB; USPAT	OR	ON	2009/04/09 14:32
S207	157	(US-20020112469-\$ or US-20040050362-\$ or US-20080208435-\$ or US-20080201059-\$ or US-20080201058-\$ or US-20080035122-\$ or US-20060107936-\$ or US-20060011180-\$ or US-20050133013-\$ or US-20030221681-\$ or US-20030200955-\$ or US-20020195086-\$ or US-20020185109-\$ or US-20020026926-\$ or US-20010017127-\$ or US-20080110422-\$ or US-20070289572-\$ or US-20070289571-\$ or US-20070215095-\$ or US-20070137612-\$ or US-20050229903-\$ or US-20050022514-\$ or US-20040211372-\$ or US-20030084858-\$ or US-20050051147-\$ or US-20080245359-\$).did. or (US-20080210197-\$ or US-20080072579-\$ or US-20080066713-\$ or US-20070289584-\$ or US-20070245818-\$ or US-20070208471-\$ or US-20070169748-\$ or US-20060278185-\$ or US-20060213490-\$ or US-20060075996-\$ or US-20050193997-\$ or US-20050193988-\$ or US-20050065707-\$ or US-20050056244-\$ or US-20040244473-\$ or US-20040237514-\$ or US-20040220720-\$ or US-20040107927-\$ or US-20040050038-\$ or US-20030217733-\$ or US-20030114978-\$ or US-20030101974-\$ or US-20030093994-\$ or US-20030029427-\$ or US-20030015168-\$ or US-20020179042-\$ or US-20020108603-\$).did. or (US-20020100442-\$ or US-20020099482-\$ or US-20020059915-\$ or US-20020038654-\$ or US-20020038541-\$ or US-20020007805-\$ or US-20020000209-\$ or US-20010054416-\$ or US-20010052341-\$ or US-20010052339-\$ or US-20010013335-\$ or US-20080092860-\$ or US-20070209609-\$ or US-20070186910-\$ or US-20070156322-\$ or US-20070113542-\$ or US-20060144047-\$ or US-20060118087-\$ or US-20060030998-\$ or US-20060016425-\$ or US-20050000473-\$ or US-20040128981-\$ or US-20070021903-\$ or US-20050188948-\$ or US-20040065279-\$ or US-20030217731-\$ or US-20030188700-\$).did. or (US-20020033156-\$ or US-20020020396-\$ or US-20010052335-\$ or US-20070261671-\$ or US-20070119242-\$ or US-20040134462-\$ or US-20090048760-\$ or US-20010022168-\$ or US-20010039473-\$ or US-20010047799-\$ or US-20010050068-\$ or US-20010056322-\$ or US-20020020388-\$ or US-20010002591-\$ or US-20010002587-\$ or US-20080264036-\$).did. or (US-6826471-\$ or US-6004524-\$ or US-6029451-\$ or US-4436286-\$ or US-5380501-\$ or US-6467256-\$ or US-7458361-\$ or US-7441544-\$ or US-7401605-\$ or US-7367316-\$ or US-7281518-\$ or US-7270118-\$ or US-7258106-\$ or US-7155334-\$ or US-7113861-\$ or US-7073465-\$ or US-6990957-\$ or US-6935313-\$ or US-6915776-\$ or US-5158058-\$ or US-3828552-\$ or US-3640255-\$ or US-7475673-\$ or US-7231906-\$ or US-7163007-\$ or US-7059313-\$).did. or (US-6985809-\$ or US-6560526-\$ or US-6481427-\$ or US-6354268-\$ or US-6325056-\$ or US-6286482-\$ or US-6276334-\$ or US-6230683-\$ or US-6125801-\$ or US-6029627-\$ or US-5551411-\$ or US-5497757-\$ or US-5400592-\$ or US-5050556-\$ or US-5048495-\$ or US-4621603-\$ or US-4401081-\$ or US-4380986-\$ or US-6883490-\$ or US-6634345-\$ or US-6612291-\$ or US-6508229-\$ or US-6289868-\$ or US-6273056-\$ or US-6161519-\$ or US-7302942-\$ or US-6425372-\$).did. or (US-6236908-\$ or US-5219227-\$ or US-6817171-\$ or US-4424783-\$).did. or (DE-19754354-\$).did. or (DE-10148663-\$ or DE-19754354-\$ or WO-0218762-\$).did.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/04/13 16:27
S208	34	S207 and (fina\$5 or end\$5 or (top adj dead adj center)) near compress\$5	US-PGPUB; USPAT	OR	ON	2009/04/13 16:29
S209	2	S207 and (fina\$5 or end\$5 or (top adj dead adj center)) near compress\$5 near pressur\$5	US-PGPUB; USPAT	OR	ON	2009/04/13 16:32
S210	16	S207 and (fina\$5 or end\$5 or (top adj dead adj center)) near compress\$5 with (pressur\$5 or temperatur%5)	US-PGPUB; USPAT	OR	ON	2009/04/13 16:35

S211	157	(US-20020112469-\$ or US-20040050362-\$ or US-20080208435-\$ or US-20080201059-\$ or US-20080201058-\$ or US-20080035122-\$ or US-20060107936-\$ or US-20060011180-\$ or US-20050133013-\$ or US-20030221681-\$ or US-20030200955-\$ or US-20020195086-\$ or US-20020185109-\$ or US-20020026926-\$ or US-20010017127-\$ or US-20080110422-\$ or US-20070289572-\$ or US-20070289571-\$ or US-20070215095-\$ or US-20070137612-\$ or US-20050229903-\$ or US-20050022514-\$ or US-20040211372-\$ or US-20030084858-\$ or US-20050051147-\$ or US-20080245359-\$).did. or (US-20080210197-\$ or US-20080072579-\$ or US-20080066713-\$ or US-20070289584-\$ or US-20070245818-\$ or US-20070208471-\$ or US-20070169748-\$ or US-20060278185-\$ or US-20060213490-\$ or US-20060075996-\$ or US-20050193997-\$ or US-20050193988-\$ or US-20050065707-\$ or US-20050056244-\$ or US-20040244473-\$ or US-20040237514-\$ or US-20040220720-\$ or US-20040107927-\$ or US-20040050038-\$ or US-20030217733-\$ or US-20030114978-\$ or US-20030101974-\$ or US-20030093994-\$ or US-20030029427-\$ or US-20030015168-\$ or US-20020179042-\$ or US-20020108603-\$).did. or (US-20020100442-\$ or US-20020099482-\$ or US-20020059915-\$ or US-20020038654-\$ or US-20020038541-\$ or US-20020007805-\$ or US-20020000209-\$ or US-20010054416-\$ or US-20010052341-\$ or US-20010052339-\$ or US-20010013335-\$ or US-20080092860-\$ or US-20070209609-\$ or US-20070186910-\$ or US-20070156322-\$ or US-20070113542-\$ or US-20060144047-\$ or US-20060118087-\$ or US-20060030998-\$ or US-20060016425-\$ or US-20050000473-\$ or US-20040128981-\$ or US-20070021903-\$ or US-20050188948-\$ or US-20040065279-\$ or US-20030217731-\$ or US-20030188700-\$).did. or (US-20020033156-\$ or US-20020020396-\$ or US-20010052335-\$ or US-20070261671-\$ or US-20070119242-\$ or US-20040134462-\$ or US-20090048760-\$ or US-20010022168-\$ or US-20010039473-\$ or US-20010047799-\$ or US-20010050068-\$ or US-20010056322-\$ or US-20020020388-\$ or US-20010002591-\$ or US-20010002587-\$ or US-20080264036-\$).did. or (US-6826471-\$ or US-6004524-\$ or US-6029451-\$ or US-4436286-\$ or US-5380501-\$ or US-6467256-\$ or US-7458361-\$ or US-7441544-\$ or US-7401605-\$ or US-7367316-\$ or US-7281518-\$ or US-7270118-\$ or US-7258106-\$ or US-7155334-\$ or US-7113861-\$ or US-7073465-\$ or US-6990957-\$ or US-6935313-\$ or US-6915776-\$ or US-5158058-\$ or US-3828552-\$ or US-3640255-\$ or US-7475673-\$ or US-7231906-\$ or US-7163007-\$ or US-7059313-\$).did. or (US-6985809-\$ or US-6560526-\$ or US-6481427-\$ or US-6354268-\$ or US-6325056-\$ or US-6286482-\$ or US-6276334-\$ or US-6230683-\$ or US-6125801-\$ or US-6029627-\$ or US-5551411-\$ or US-5497757-\$ or US-5400592-\$ or US-5050556-\$ or US-5048495-\$ or US-4621603-\$ or US-4401081-\$ or US-4380986-\$ or US-6883490-\$ or US-6634345-\$ or US-6612291-\$ or US-6508229-\$ or US-6289868-\$ or US-6273056-\$ or US-6161519-\$ or US-7302942-\$ or US-6425372-\$).did. or (US-6236908-\$ or US-5219227-\$ or US-6817171-\$ or US-4424783-\$).did. or (DE-19754354-\$).did. or (DE-10148663-\$ or DE-19754354-\$ or WO-0218762-\$).did.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2009/04/14 14:18
S212	34	(prior or prvious or before) near combustion and S211	US-PGPUB; USPAT	OR	ON	2009/04/14 14:18

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